

FIG. 1

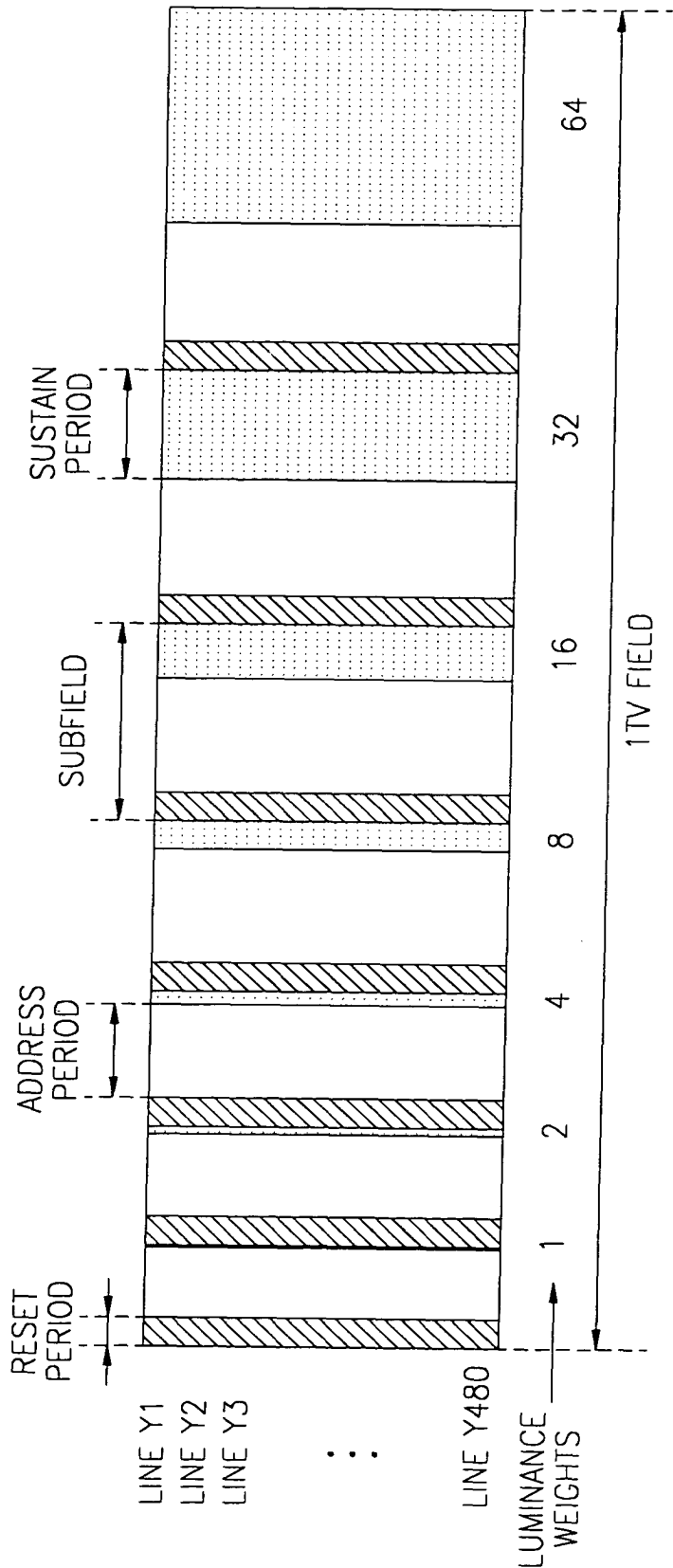


FIG. 2

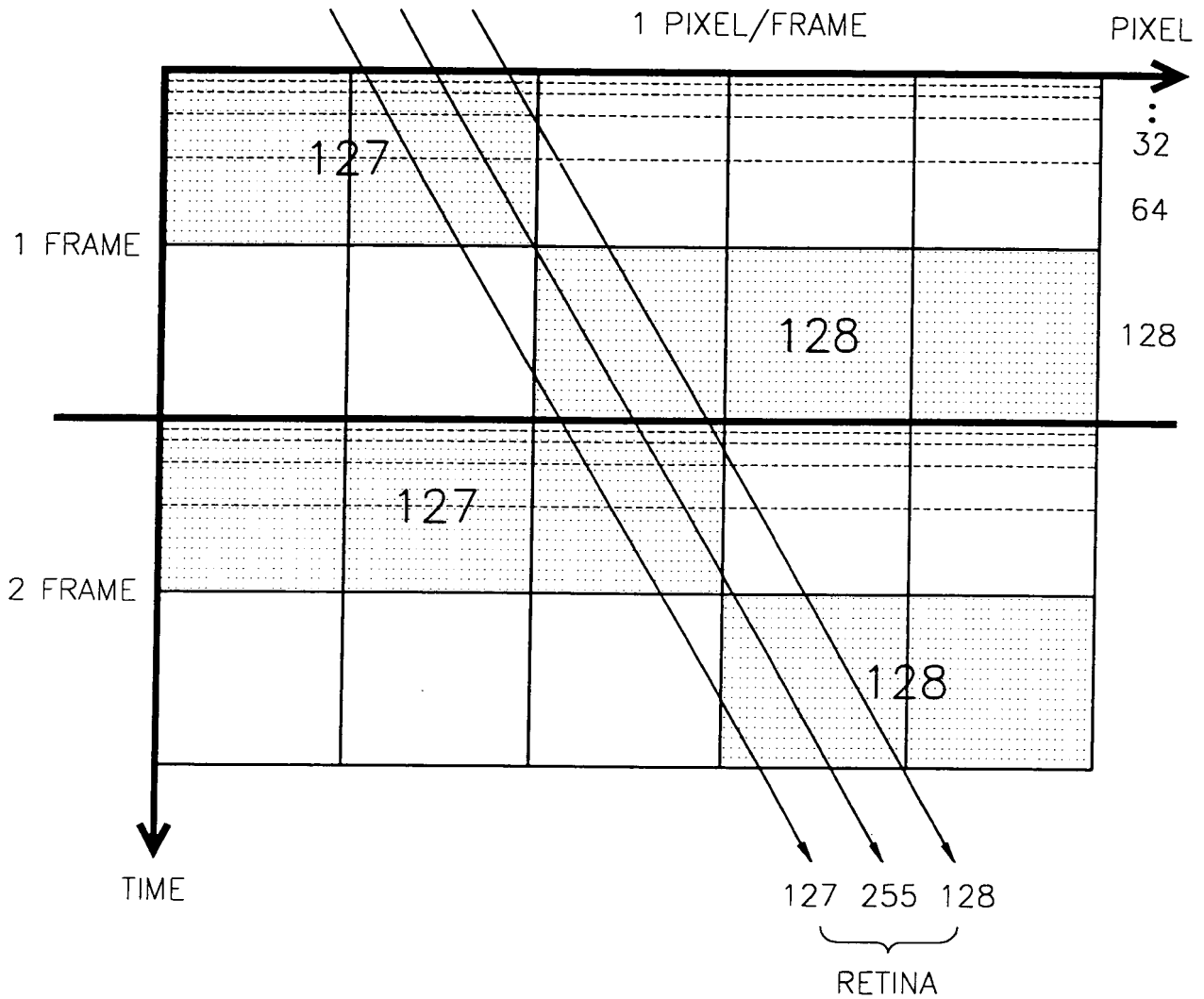


FIG. 3

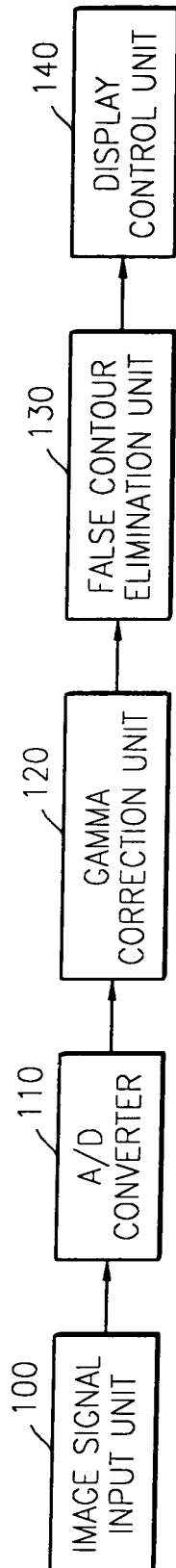
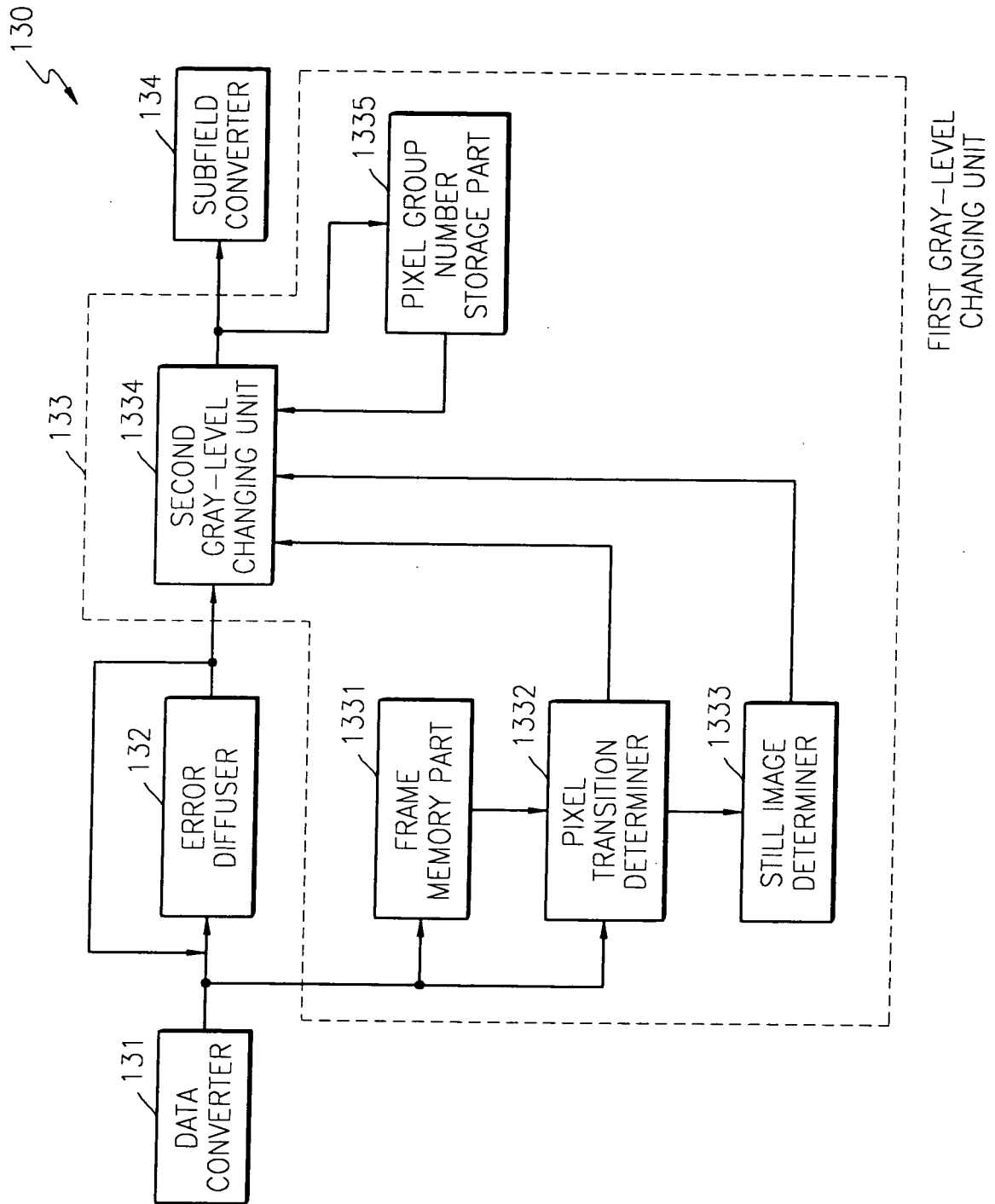


FIG. 4



BINARY

| GRAY LEVEL | PIXEL GROUP NUMBER | | | | | | | | | | | |
|---------------|--------------------|--------|----|----|----|----|----|----|----|----|----|---|
| | | D0 | D1 | D2 | D3 | D4 | D5 | D6 | D7 | D8 | D9 | |
| 0~D3×1-1 | 0 | BINARY | | | × | × | × | × | × | × | × | |
| D3×1~D3×2-1 | 1 | | | | ● | × | × | × | × | × | × | × |
| D3×2~D3×3-1 | 2 | | | | × | ● | × | × | × | × | × | × |
| D3×3~D3×4-1 | 3 | | | | ● | ● | × | × | × | × | × | × |
| D3×4~D3×5-1 | 4 | | | | ● | × | ● | × | × | × | × | × |
| D3×5~D3×6-1 | 5 | | | | × | ● | ● | × | × | × | × | × |
| D3×6~D3×7-1 | 6 | | | | ● | ● | ● | × | × | × | × | × |
| D3×7~D3×8-1 | 7 | | | | ● | ● | × | ● | × | × | × | × |
| D3×8~D3×9-1 | 8 | | | | ● | × | ● | ● | × | × | × | × |
| D3×9~D3×10-1 | 9 | | | | × | ● | ● | ● | × | × | × | × |
| D3×10~D3×11-1 | 10 | | | | ● | ● | ● | ● | × | × | × | × |
| D3×11~D3×12-1 | 11 | | | | ● | ● | ● | × | ● | × | × | × |
| D3×12~D3×13-1 | 12 | | | | ● | ● | × | ● | ● | × | × | × |
| D3×13~D3×14-1 | 13 | | | | ● | × | ● | ● | ● | × | × | × |
| D3×14~D3×15-1 | 14 | | | | × | ● | ● | ● | ● | × | × | × |
| D3×15~D3×16-1 | 15 | | | | ● | ● | ● | ● | ● | × | × | × |
| D3×16~D3×17-1 | 16 | | | | ● | ● | ● | × | ● | ● | × | × |
| D3×17~D3×18-1 | 17 | | | | ● | ● | × | ● | ● | ● | × | × |
| D3×18~D3×19-1 | 18 | | | | ● | × | ● | ● | ● | ● | × | × |
| D3×19~D3×20-1 | 19 | | | | × | ● | ● | ● | ● | ● | × | × |
| D3×20~D3×21-1 | 20 | | | | ● | ● | ● | ● | ● | ● | × | × |
| D3×21~D3×22-1 | 21 | | | | ● | ● | ● | × | ● | ● | ● | ● |
| D3×22~D3×23-1 | 22 | | | | ● | ● | × | ● | ● | ● | ● | ● |
| D3×23~D3×24-1 | 23 | | | | ● | × | ● | ● | ● | ● | ● | ● |
| D3×24~D3×25-1 | 24 | | | | × | ● | ● | ● | ● | ● | ● | ● |
| D3×25~D3×26-1 | 25 | | | | | | | | | ● | | ● |

FIG. 6

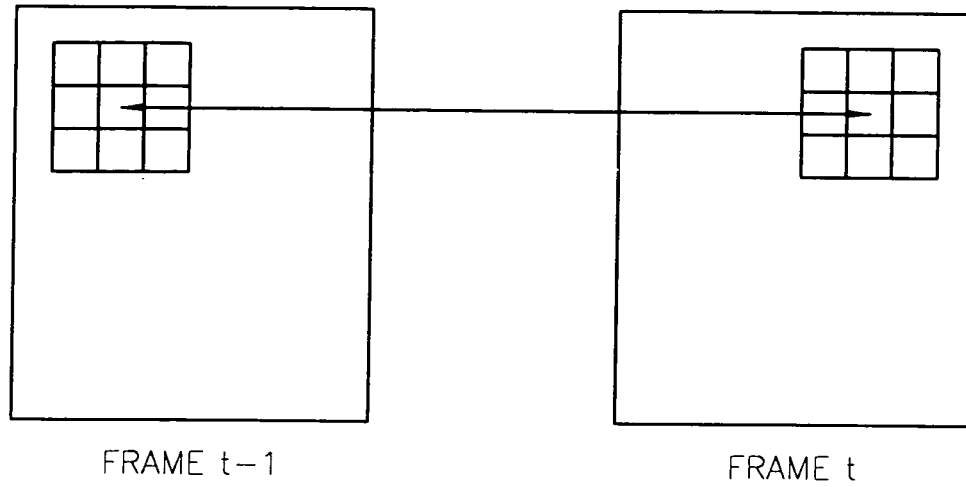


FIG. 7

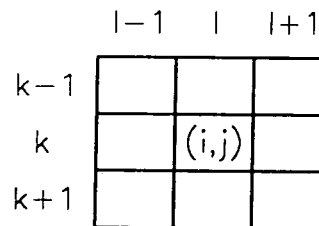


FIG. 8

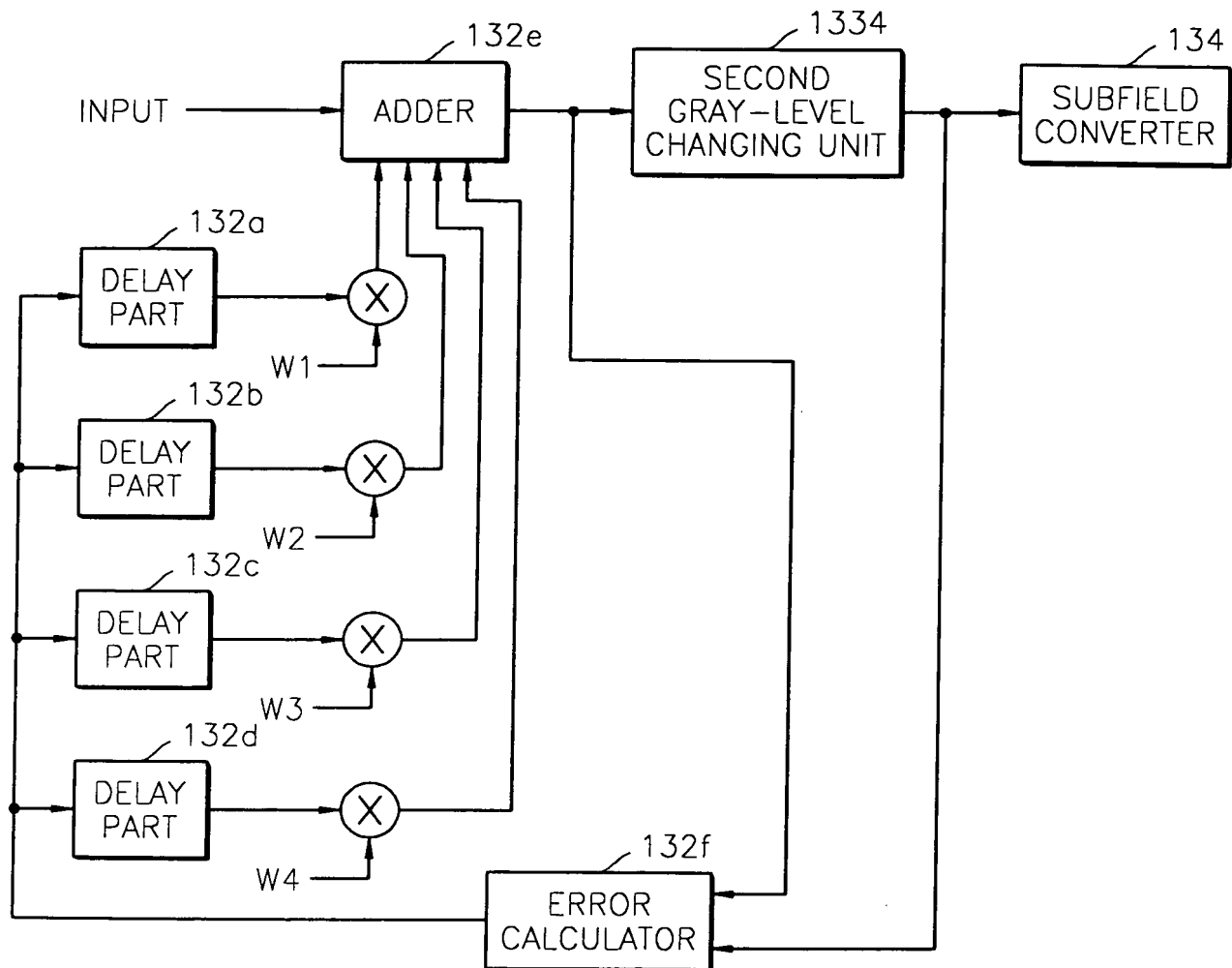


FIG. 9

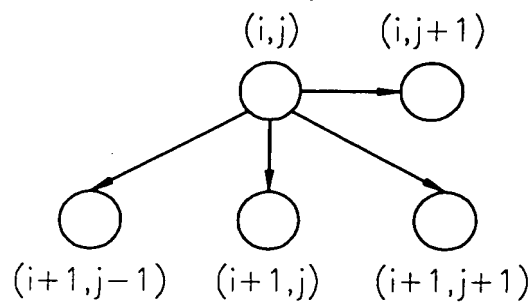


FIG. 10

[illegible]

FIG. 11

| PIXEL GROUP NUMBER | D3 | D4 | D5 | D6 | D7 | D8 | D9 |
|-----------------------|----|----|----|----|----|----|----|
| 0 | × | × | × | × | × | × | × |
| 1 | ● | × | × | × | × | × | × |
| 2 | × | ● | × | × | × | × | × |
| 3 | ● | ● | × | × | × | × | × |
| 4 | ● | × | ● | × | × | × | × |
| 5 | × | ● | ● | × | × | × | × |
| 6 | ● | ● | ● | × | × | × | × |
| 7 | ● | ● | × | ● | × | × | × |
| 8 | ● | × | ● | ● | × | × | × |
| 9 | × | ● | ● | ● | × | × | × |
| 10 | ● | ● | ● | ● | × | × | × |
| 11 | ● | ● | ● | × | ● | × | × |
| 12 | ● | ● | × | ● | ● | × | × |
| 13 | ● | × | ● | ● | ● | × | × |
| 14 | × | ● | ● | ● | ● | × | × |
| 15 | ● | ● | ● | ● | ● | × | × |
| 16 | ● | ● | ● | × | ● | ● | × |
| 17 | ● | ● | × | ● | ● | ● | × |
| 18 | ● | × | ● | ● | ● | ● | × |
| 19 | × | ● | ● | ● | ● | ● | × |
| 20 | ● | ● | ● | ● | ● | ● | × |
| 21 | ● | ● | ● | × | ● | ● | ● |
| 22 | ● | ● | × | ● | ● | ● | ● |
| 23 | ● | × | ● | ● | ● | ● | ● |
| 24 | × | | | | | | |
| 25 | | | | | | | |

FIG. 12

| PIXEL GROUP NUMBER | CONVERSION OF HIGHER WEIGHTED SUBFIELDS | |
|--------------------------|--|--------------------------|
| | FIRST REPRESENTATION | SECOND REPRESENTATION |
| 0 | 0 | 0 |
| 1 | 1 | 1 |
| 2 | 2 | 2 |
| 3 | 3 | 3 |
| 4 | 4 | 4 |
| 5 | 4,5,6 | 3,4,5,6,7 |
| 6 | 5,6,7 | 4,5,6,7,8 |
| 7 | 6,7,8 | 5,6,7,8,9 |
| 8 | 7,8,9 | 6,7,8,9,10 |
| 9 | 8,9,10 | 7,8,9,10,11 |
| 10 | 9,10,11 | 8,9,10,11,12 |
| 11 | 10,11,12 | 9,10,11,12,13 |
| 12 | 11,12,13 | 10,11,12,13,14 |
| 13 | 12,13,14 | 11,12,13,14,15 |
| 14 | 13,14,15 | 12,13,14,15,16 |
| 15 | 14,15,16 | 13,14,15,16,17 |
| 16 | 15,16,17 | 14,15,16,17,18 |
| 17 | 16,17,18 | 15,16,17,18,19 |
| 18 | 17,18,19 | 16,17,18,19,20 |
| 19 | 18,19,20 | 17,18,19,20,21 |
| 20 | 19,20,21 | 18,19,20,21,22 |
| 21 | 20,21,22 | 19,20,21,22,23 |
| 22 | 21,22,23 | 20,21,22,23,24 |
| 23 | 22,23,24 | 21,22,23,24,25 |
| 24 | 23,24,25 | 22,23,24,25 |
| 25 | 24,25 | 23,24,25 |

FIG. 13

| SIGN BIT (ONE BIT) | DIFFERENCE DATA (TWO BITS) |
|-----------------------|-------------------------------|
|-----------------------|-------------------------------|

| SIGN BIT | DIFFERENCE DATA | OUTPUT DIFFERENCE DATA |
|----------|-----------------|---------------------------|
| 0 | 00 | 0 |
| | 01 | 1 |
| | 10 | 2 |
| | 11 | 3 |
| 1 | 00 | 0 |
| | 01 | -1 |
| | 10 | -2 |
| | 11 | -3 |

FIG. 14

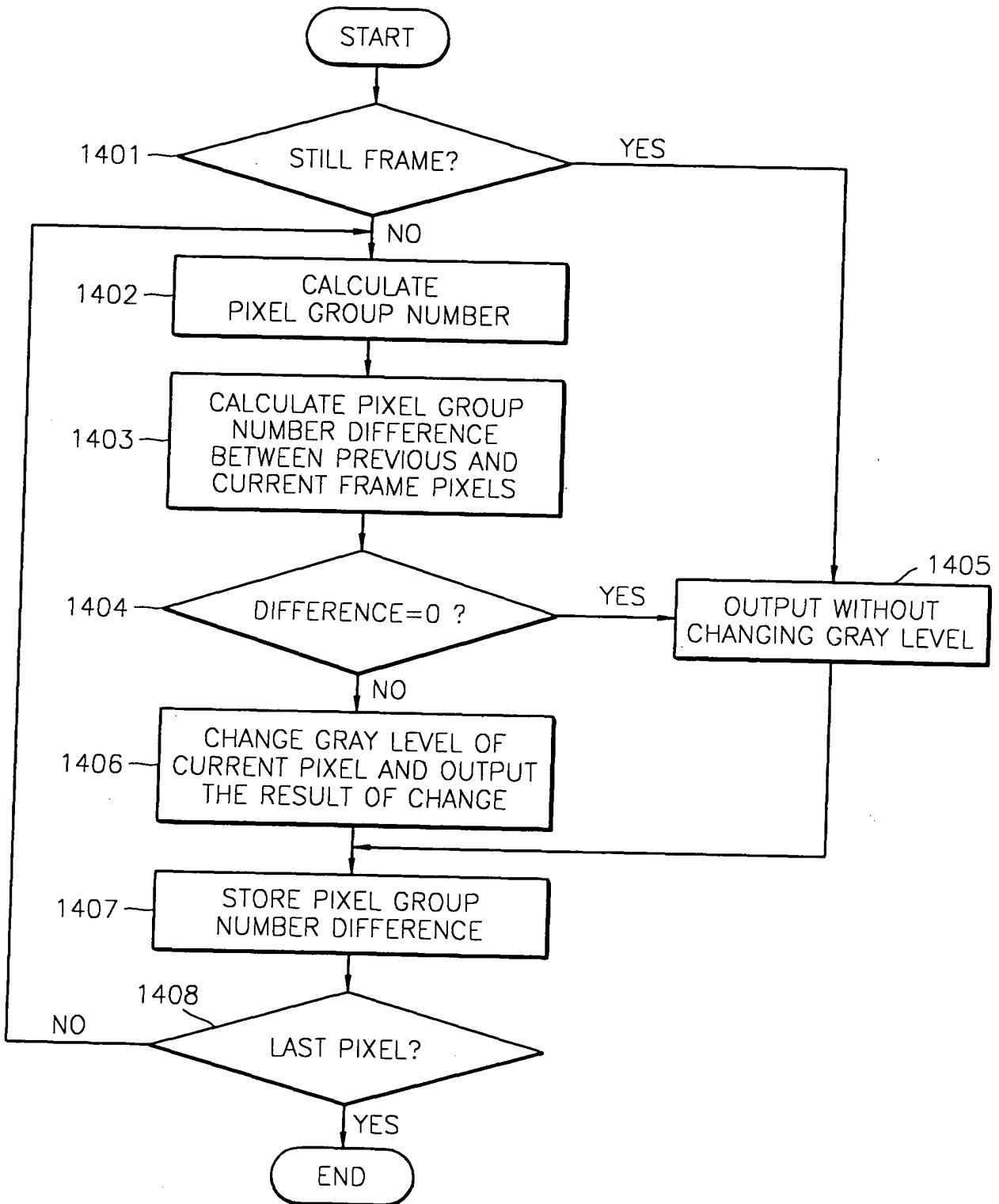


FIG. 15

